

that the compounds containing nitrogen are selected from the group of compounds, comprising the following substituted with alkyl, aryl and/or aralkyl groups: imidazoles, benzimidazoles, triazoles,

benzotriazoles, pyrroles, pyrazoles, oxazoles, isoxazoles, thiazoles, benzothiazoles, indoles, adenine, purine, quinolines, pyrazines, quinazolines, guanine, xanthine, hypoxanthine, indazoles, creatinine, phenazines, cupferron, tetrazoles, thiadiazoles, thiatriazoles, isothiazoles as well as derivatives of same, the alkyl groups having at least three carbon atoms.

7. (amended) Method according to claim 1 [one of claims 1 to 5], **characterised in that** the compounds containing nitrogen contain oligomer or polymer chains to which compounds are linked which are selected from the group of compounds comprising the following substituted with alkyl, aryl, and/or aralkyl groups: imidazoles, benzimidazoles, triazoles, benzotriazoles, pyrroles, pyrazoles, oxazoles, isoxazoles, thiazoles, benzothiazoles, indoles, adenine, purine, quinolines, pyrazines, quinazolines, guanine, xanthine, hypoxanthine, indazoles, creatinine, phenazines, cupferron, tetrazoles, thiadiazoles, thiatriazoles, isothiazoles as well as derivatives of same, the alkyl groups having at least three carbon atoms.

8. (amended) Method according to any one of claims 1-2 [the preceding claims], **characterised in that** the protective layer is formed by bringing the metal layers into contact with an aqueous acid solution of the compound containing at least one nitrogen.

9. (amended) Method according to any one of claims 1,6 and 7 [the preceding claims], **characterised in that** the solution to form the protective layer contains at least one acid selected from the group comprising phosphoric acid, sulphuric acid, hydrochloric acid, phosphorous acid, formic acid, ethanoic acid, glycolic acid, oxalic acid, succinic acid, maleic acid, tartaric acid, adipic acid and lactic acid.

10. (amended) Method according to any one of claims 1, 2, 6 and 7 [the preceding claims], **characterised in that** the protective layers is formed by an electrochemical reaction, in that, as the metal layers are brought into contact with the solution which contains the compounds containing nitrogen, an electric voltage is applied at least intermittently between the metal